

FIG. 1

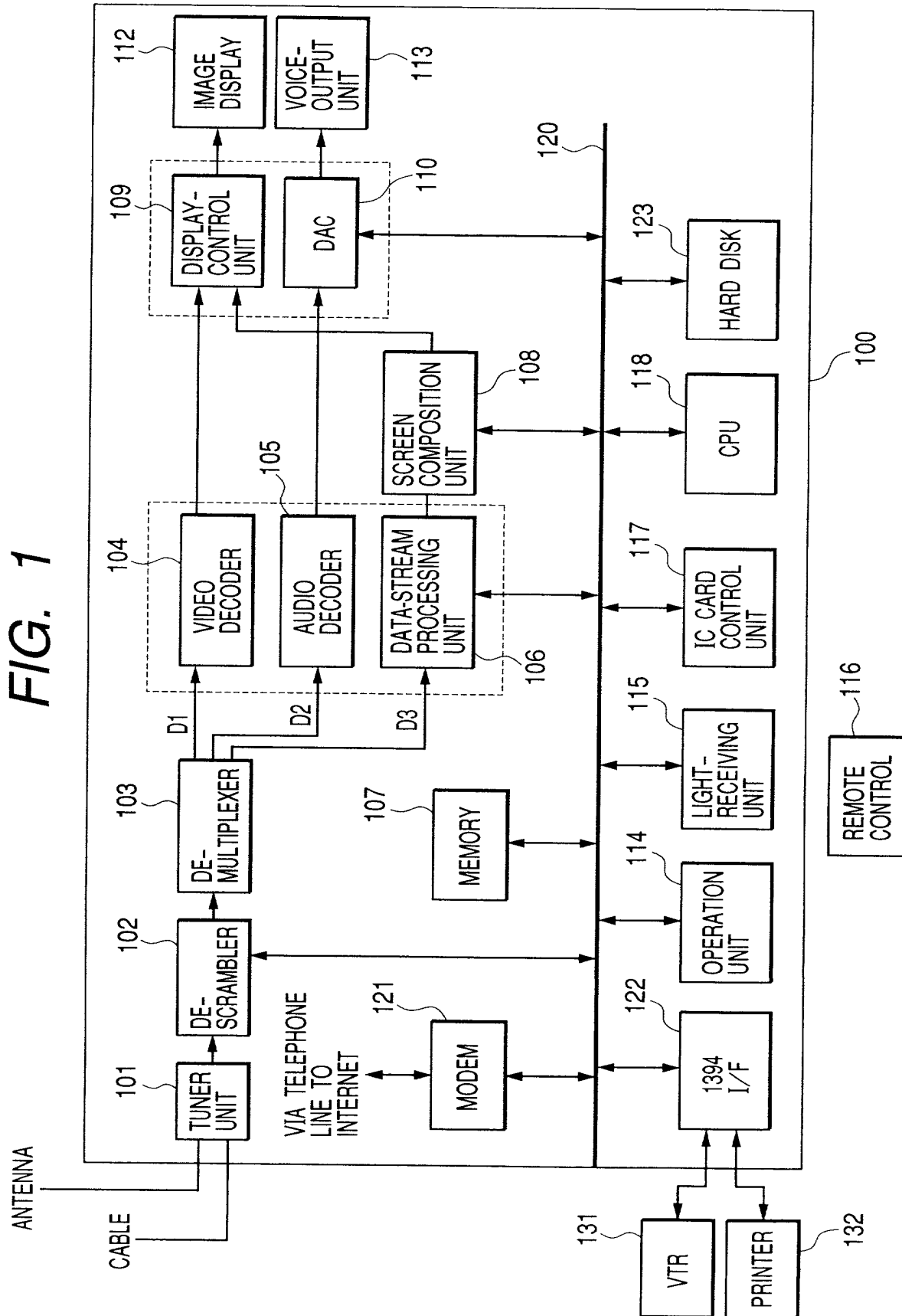
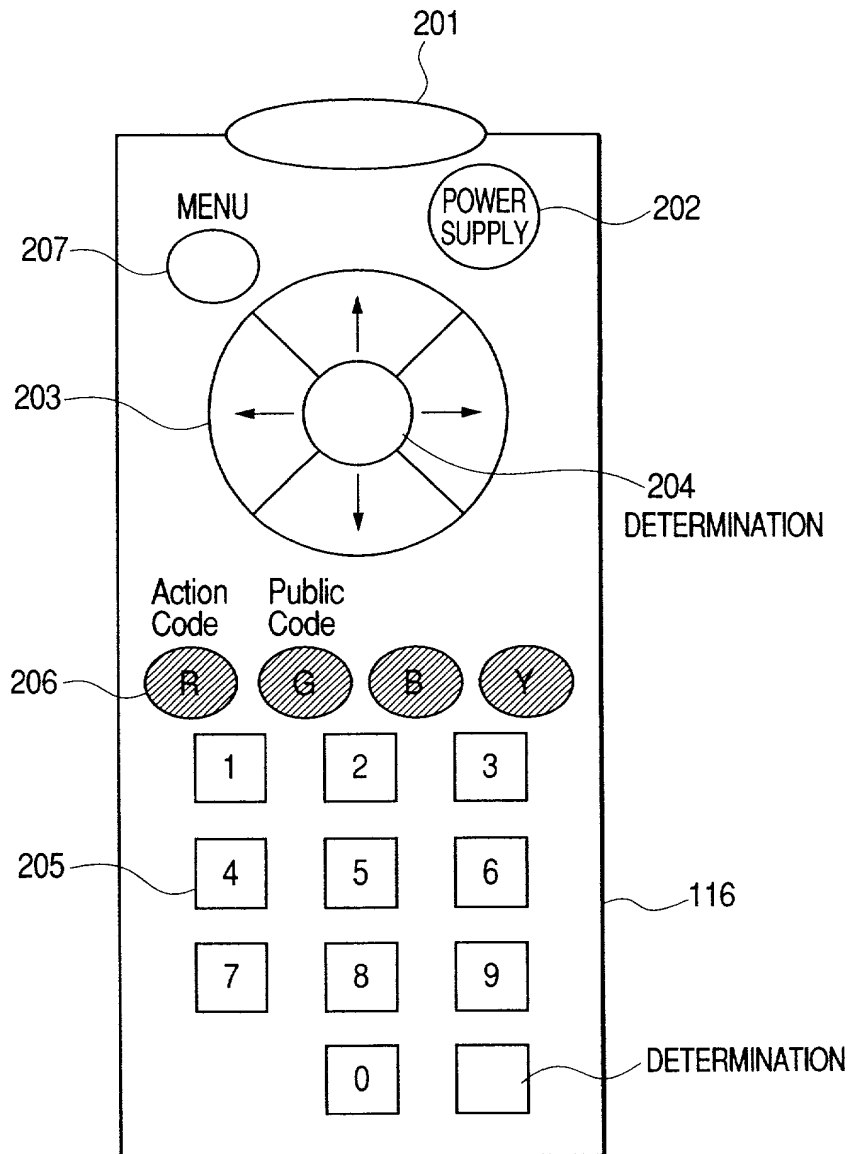
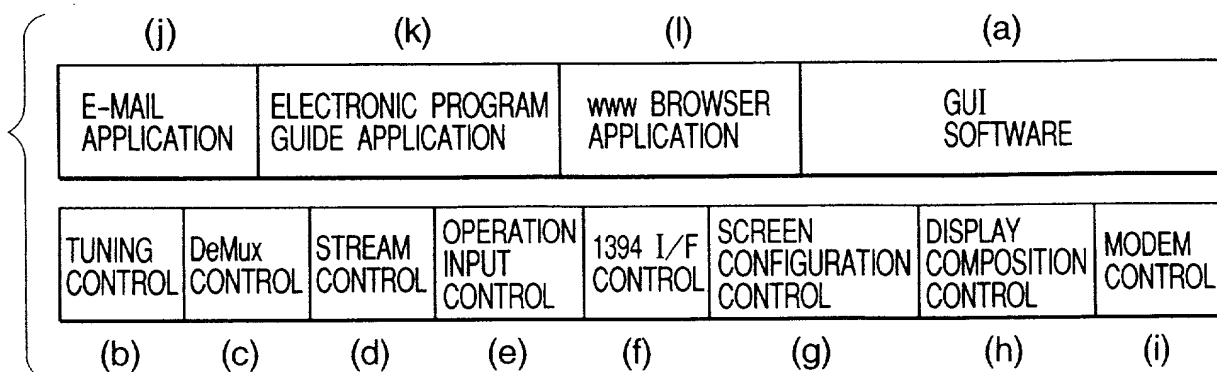


FIG. 2**FIG. 3**

```
<??xml version=1.0?>
<datanews>
<title> DATA-BROADCASTING NEWS </title>
<date>JUNE 1, 1999 </date>
<logurl> http://www.xxx.co.jp/log </logurl>

<news_item id="1" category="politics">
<news_title> THE PRIME MINISTER VISITS THE U.S. </news_title>
<news_img type="image/jpg"> 990601-1.jpg </news_img>
<news_src> WORLD COOPERATION COMMUNICATION </news_src>
<news_abust>
(26-TH) THE PRIME MINISTER LEFT FOR THE SECOND VISIT TO THE U.S. BY THIS VISIT TO THE U.S., IT IS XXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
</news_abust>
<news_movie type="movie/mpeg" starttime="330", playtime="30"> news.mpg </news_movie>
</news_item>

<news_item id="2" category="economy">
<news_title> G7 IS HELD. A SUBJECT FOR DISCUSSION IS A STRONG-YEN PROBLEM </news_title>
<news_img type="image/jpg"> 990601-2 </news_img>
<news_src> KANNON NEWSPAPER </news_src>
<news_abust>
(XXX OF ADVANCED SEVEN NATIONS XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
</news_abust>
<news_movie type="movie/mpeg" starttime="820", playtime="30"> news.mpg </news_movie>
</news_item>
.
:
:
</datanews>
```

FIG. 5

```

<!DOCTYPE abc SYSTEM "http://www.xxx.co.jp/abc.dtd">
<head>
<title> Data HOUSOU news </title>
<script language="JavaScript">
function playmovie (file.start.length) {
    window1.data=file;
    window1.setPosition (start);
    window1.setPlaylength (length);
    window1.play (1);
}
</script>
</head>
<body>
<p style="text-align: center; font-size:32"> DATA-BROADCASTING NEWS</p>
<br>
<object id="window1", style="position:absolute;top:80; left:320; width:320; height:240"type="movie/mpeg" data=""> </object>
<div style="position:absolute; top:80; left:20; width:64; height:64">
    
</div>
<div style="position:absolute; font-size=14; top:80; left:90; width:256; height:16"
    onClick="playmovie ("news.mpeg",330,30)>THE PRIME MINISTER VISITS THE U.S.
</div>
<div style="position:absolute;font-size=10; top:100; left:90; width:256; height:40;> (26-TH) THE PRIME MINISTER LEFT FOR
THE SECOND VISIT TO THE U.S. BY THIS VISIT TO THE U.S., IT IS XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
</div>
<div style="position:absolute; top:150; left:20; width:64; height:64">
    
</div>
<div style="position:absolute; font-size=14; top:150; left:90; width:256; height:16"
    onClick="playmovie ("news.mpeg",820,30)> G7 IS HELD. A SUBJECT FOR DISCUSSION IS A STRONG-YEN PROBLEM
</div>
<div style="position:absolute; font-size=10; top:100; left:450; width:256; height:40;> XXXX OF ADVANCED SEVEN NATIONS
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX </div>
</body>
</html>

```

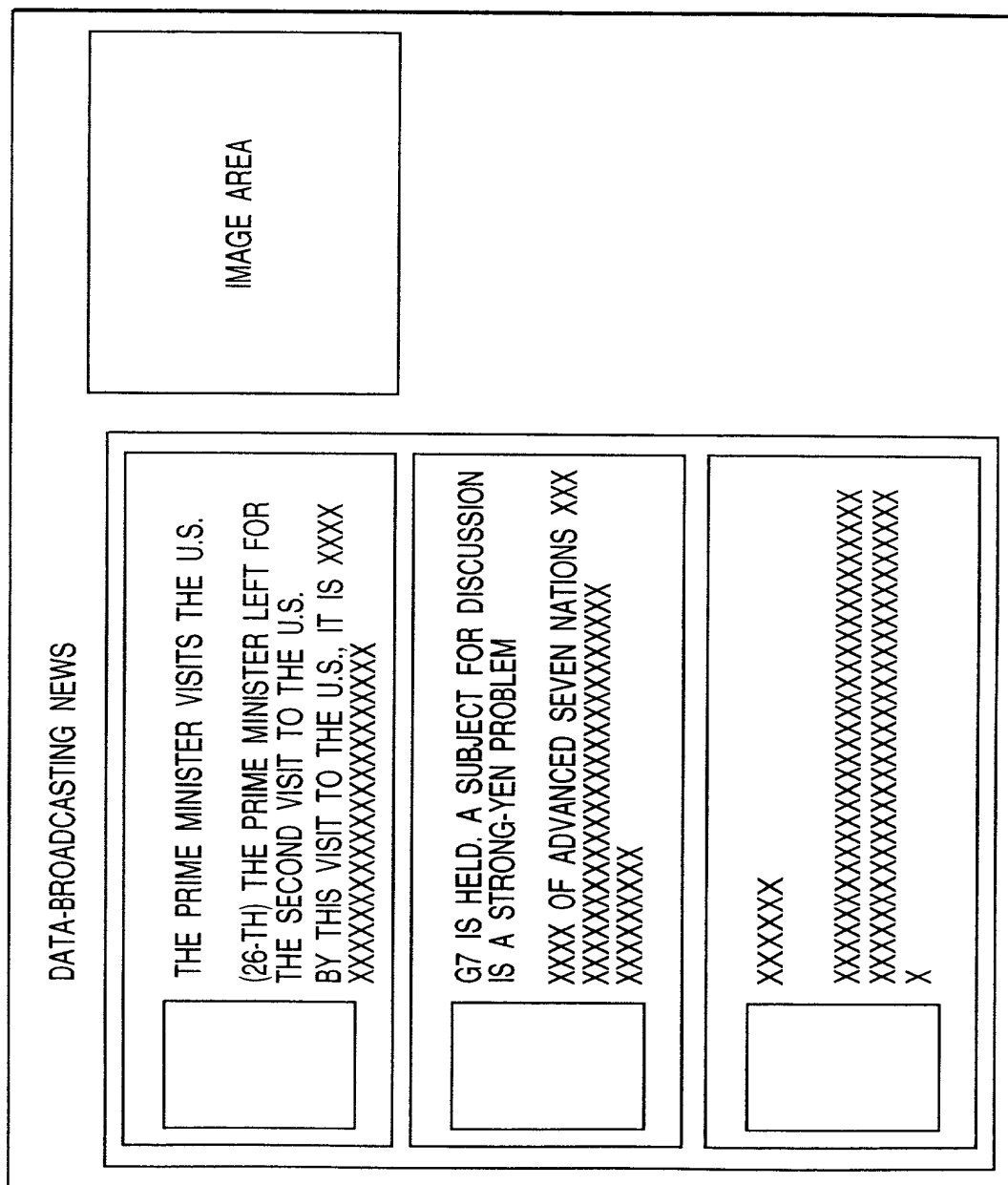
[illegible]

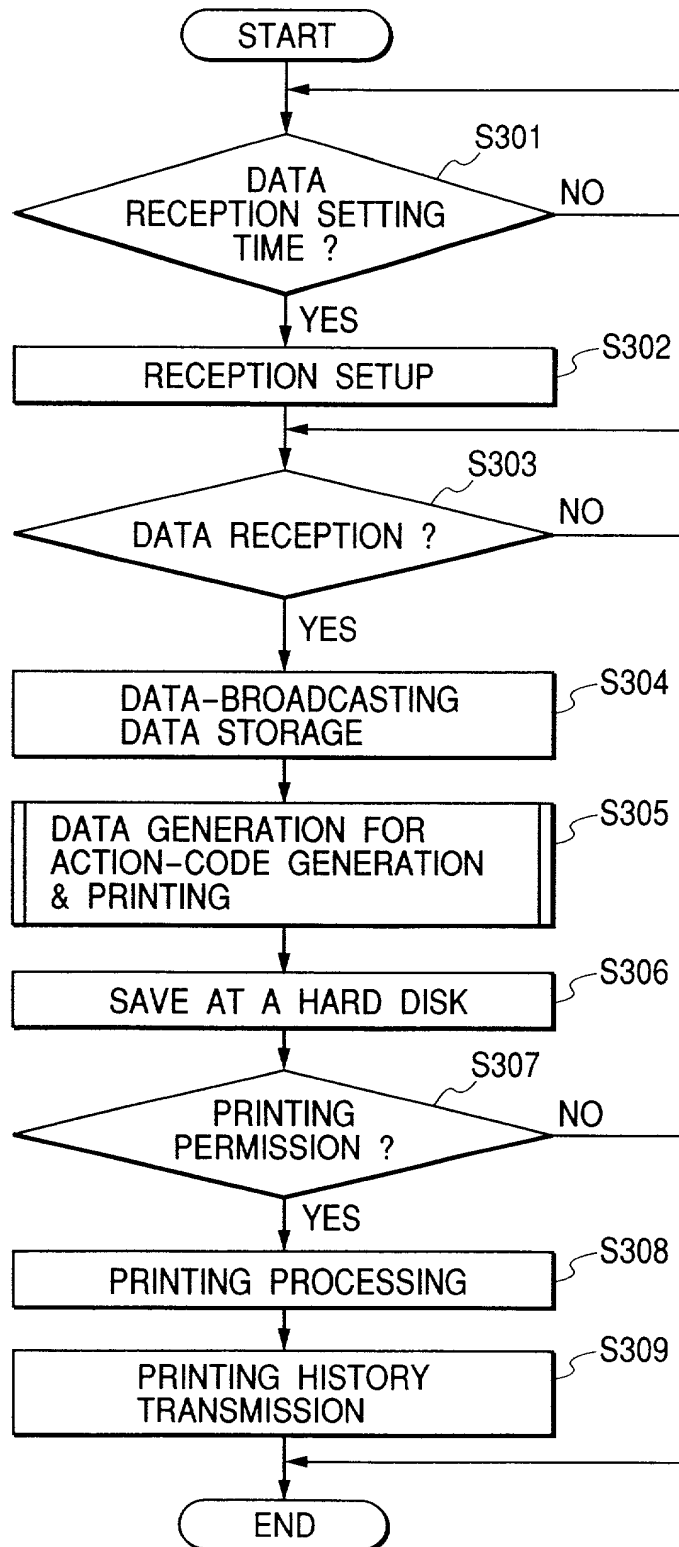
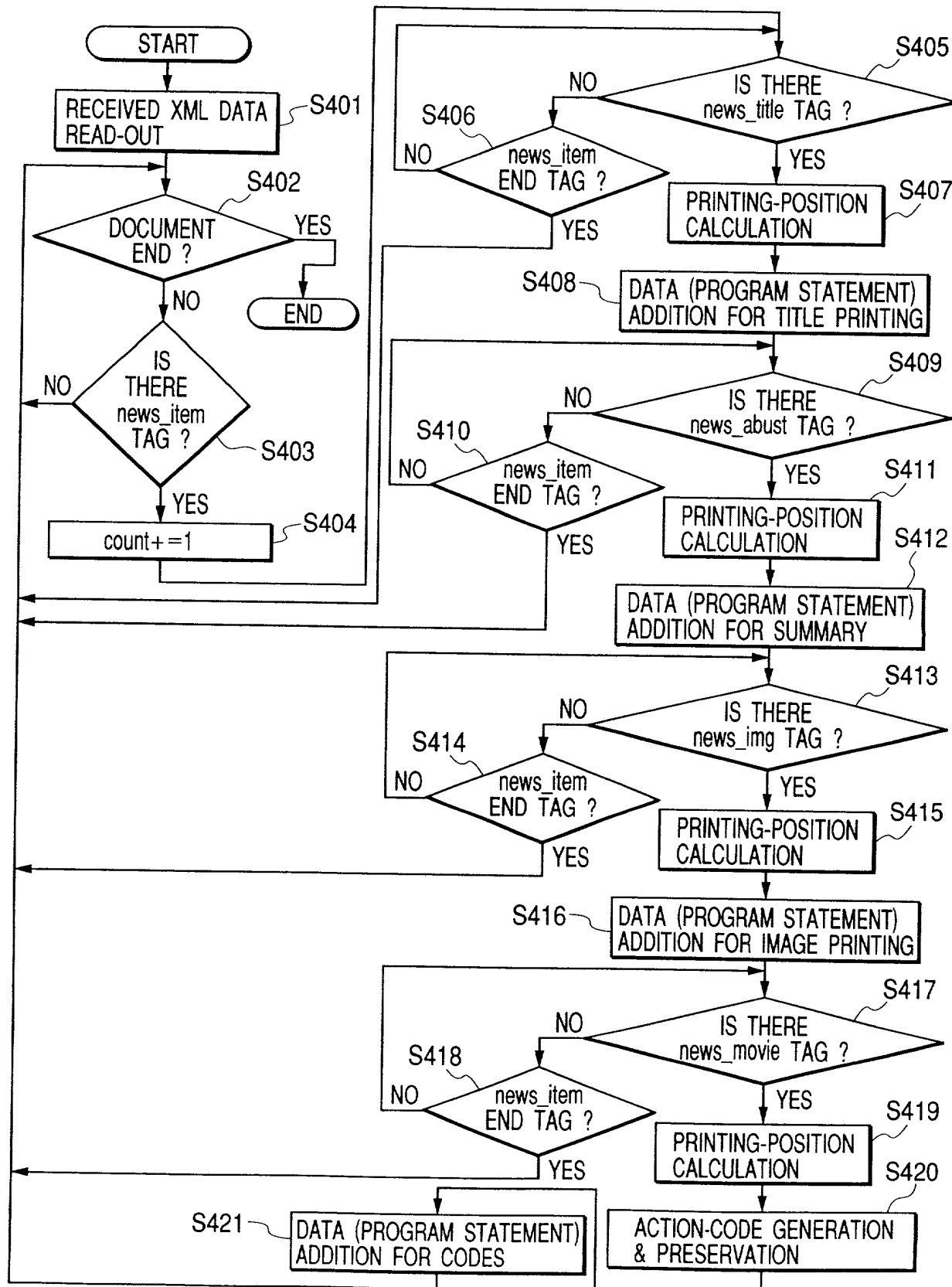
FIG. 7

FIG. 8



```
<DOCTYPE abc SYSTEM "http://www.xxx.co.jp/abc.dtd">
<head>
<title> Data HOUSOU news </title>

</head>
<body>
<p style="text-align: center; font-size: 32"> DATA-BROADCASTING NEWS</p>
<br>
<div style="position: absolute; font-size: 14; left: 80; top: 100; width: 200; height: 20">THE PRIME MINISTER VISITS THE U.S. </div>---①
<div style="position: absolute; left: 10; top: 100; width: 64; height: 64"></div>---②
<div style="position: absolute; font-size: 10; left: 80; top: 120; width: 200; height: 60">(26-TH) THE PRIME MINISTER LEFT FOR SECOND
VISIT TO THE U.S. BY THIS VISIT TO THE U.S., IT IS XXXXXXXXXXXXXXXXXXXXXXXX</div>---③
<div style="position: absolute; font-size: 10; left: 80; top: 180; width: 200; height: 20; color: red">CODE:000 (IMAGE)</div>---④

<div style="position: absolute; font-size: 14; left: 360; top: 100; width: 200; height: 20"> G7 IS HELD. A SUBJECT FOR DISCUSSION IS
A STRONG-YEN PROBLEM </div>
<div style="position: absolute; left: 290; top: 100; width: 64; height: 64"></div>
<div style="position: absolute; font-size: 10; left: 360; top: 120; width: 200; height: 60;"> XXXX OF ADVANCED SEVEN NATIONS XXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX </div>
<div style="position: absolute; font-size: 10; left: 360; top: 180; width: 200; height: 20; color: red"> CODE:001 (IMAGE)</div>

:
:
( THE MIDDLE IS OMITTED )

</body>
</html>
```

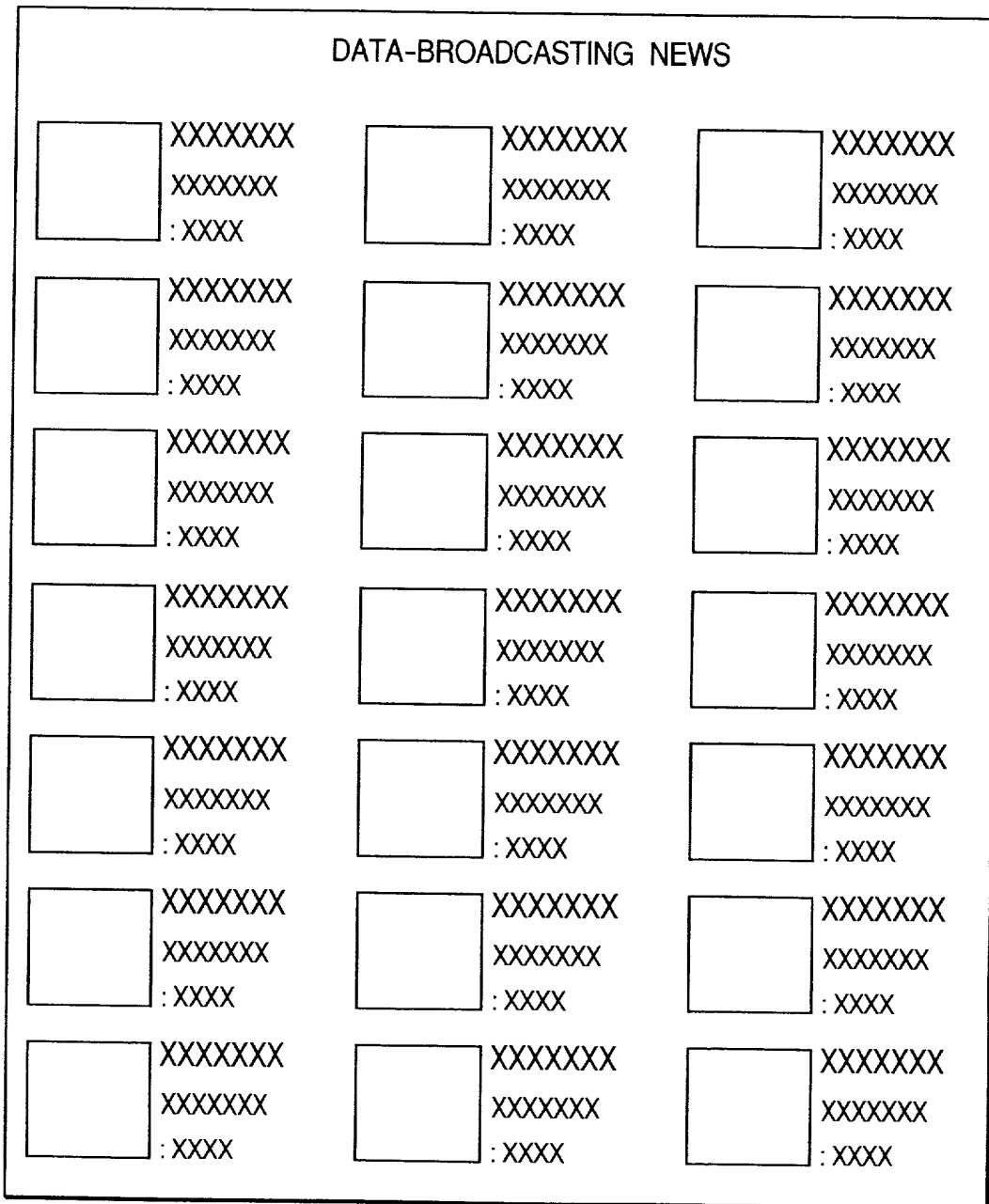

FIG. 10

FIG. 11

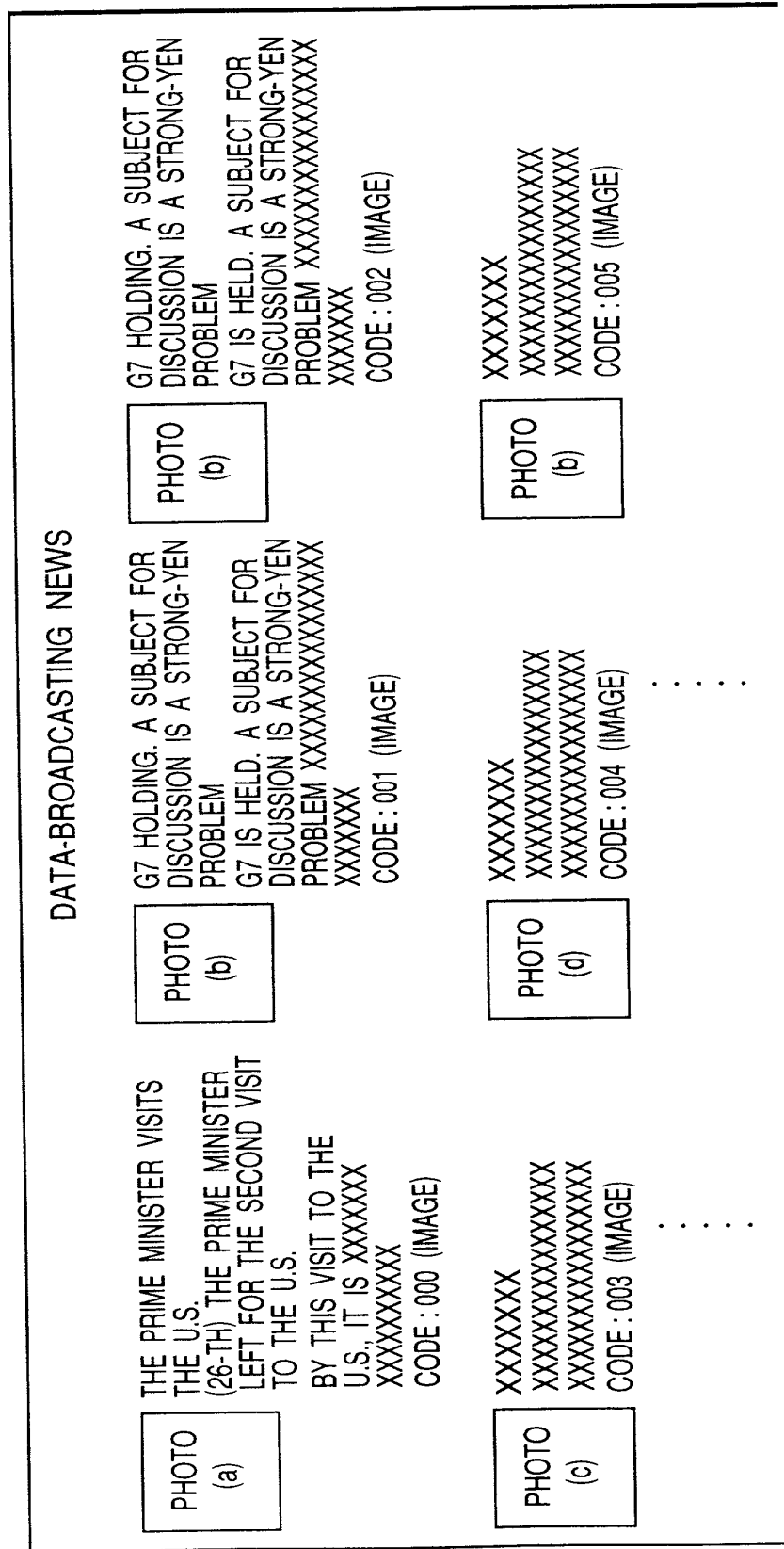


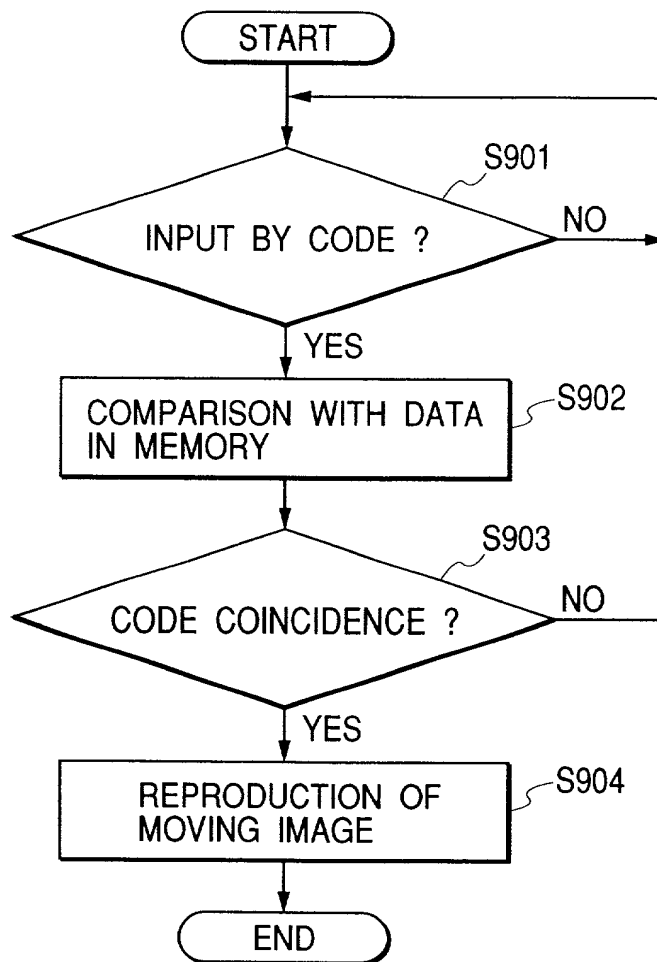
FIG. 12

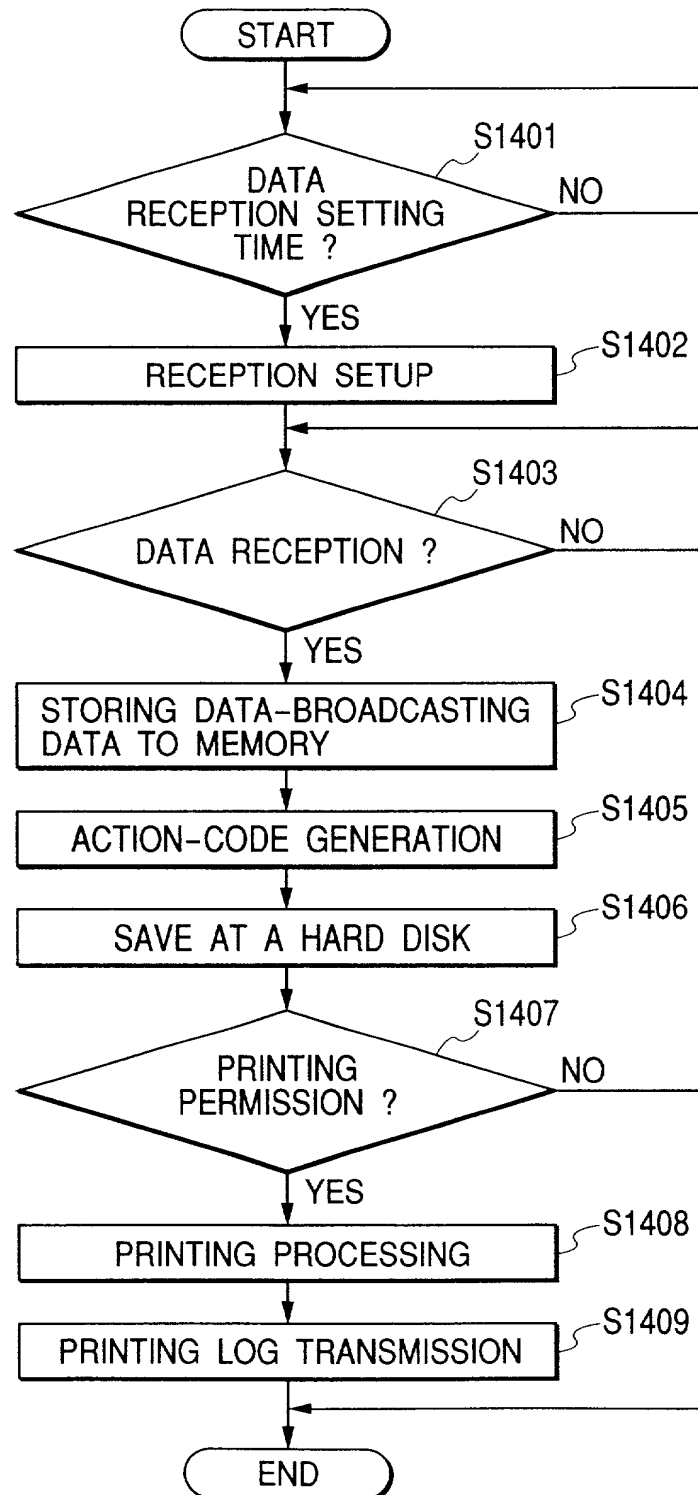
FIG. 13

FIG. 14

GOODS CATALOG		Action Code : 000
<div>PHOTO</div>	XXXXXX XXXX ARTICLE CODE : 000 XXXXXX XXXX ARTICLE CODE : 001 XXXXXX XXXX ARTICLE CODE : 002 XXXXXX XXXX ARTICLE CODE : 003	XXXXXX XXXX ARTICLE CODE : 006 XXXXXX XXXX ARTICLE CODE : 007 XXXXXX XXXX ARTICLE CODE : 008 XXXXXX XXXX ARTICLE CODE : 009
	XXXXXX XXXX ARTICLE CODE : 004	XXXXXX XXXX ARTICLE CODE : 010
	XXXXXX XXXX ARTICLE CODE : 005	XXXXXX XXXX ARTICLE CODE : 011

FIG. 15

```

<!DOCTYPE abc SYSTEM "http://www.xxx.co.jp/abc.dtd">
<head> <title> Data HOUSOU news Display Page </title> </head>

<script language="JavaScript">
function KeyCheck0 {
    if (event.KeyCode=="DETERMINATION") {
        parsecode (actioncode.value);
    }
}
function parsecode (val) {
    if (val=="000") {
        window1.data="shop.mpeg";
        window1.setposition(330);
        window1.setplaylength(30);
        window1.play(1);
    }
    if (val=="001") {
        window1.data="shop.mpeg";
        window1.setposition(820);
        window1.setplaylength(30);
        window1.play(1);
    }
    ~THE MIDDLE IS OMITTED~
}
</script>

</head>

<body>
<p style="text-align: center; font-size: 32"> DATA-BROADCASTING SHOPPING </p> <br>
<object id="window1" style="position:absolute; top: 100; left: 30; width: 520;
height: 400" type="image/jpeg" data="blueback.jpg"> </object>

<div style="position:absolute; top:380; left:560, width:200; height:200">
    <span style="font-size:20; font-weight:bold;"> INPUT ARTICLE CODE </span>
    <input type="text" id="actioncode" onkeypress="KeyCheck0">
</div>
</body>
</html>

```

FIG. 16

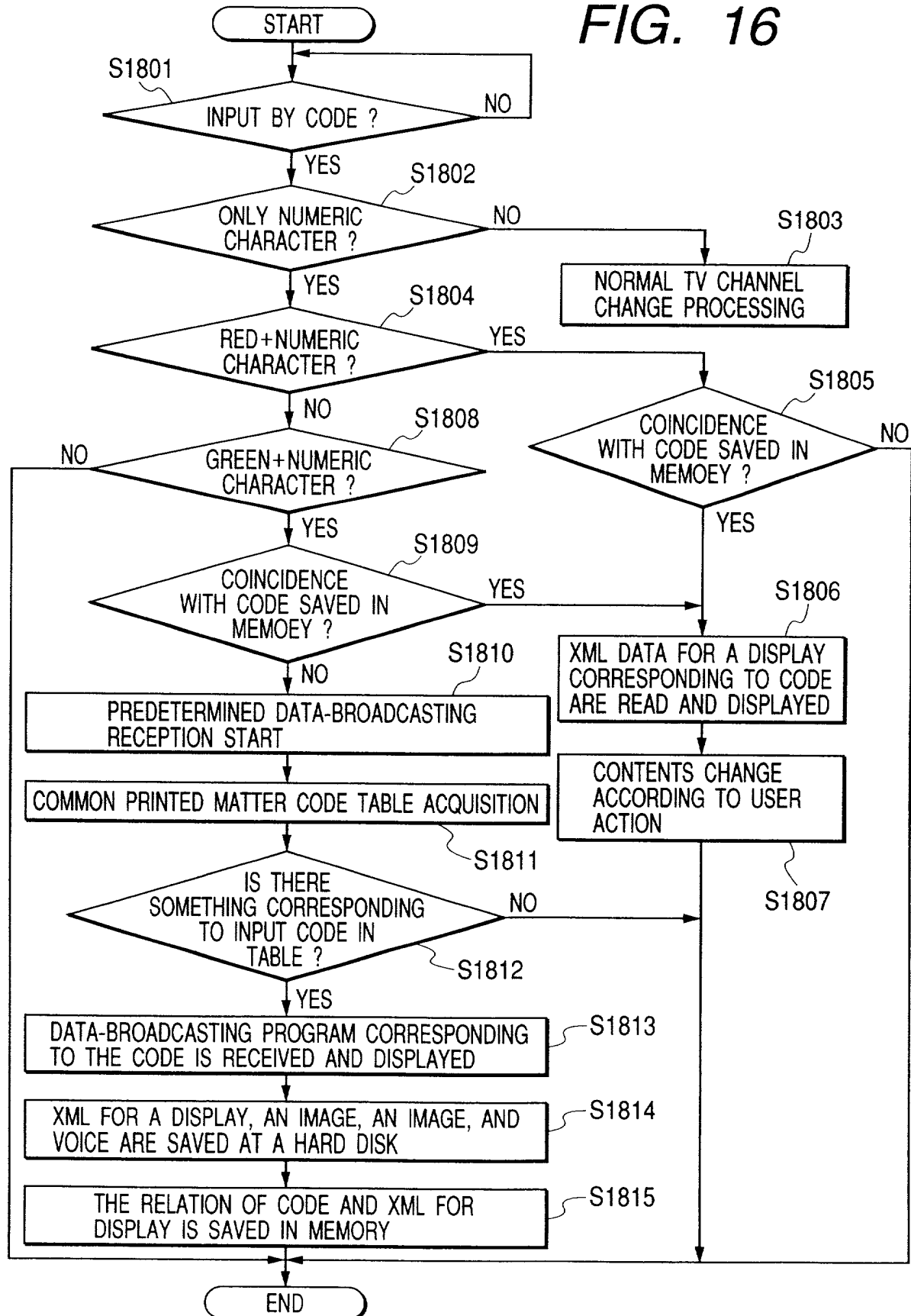
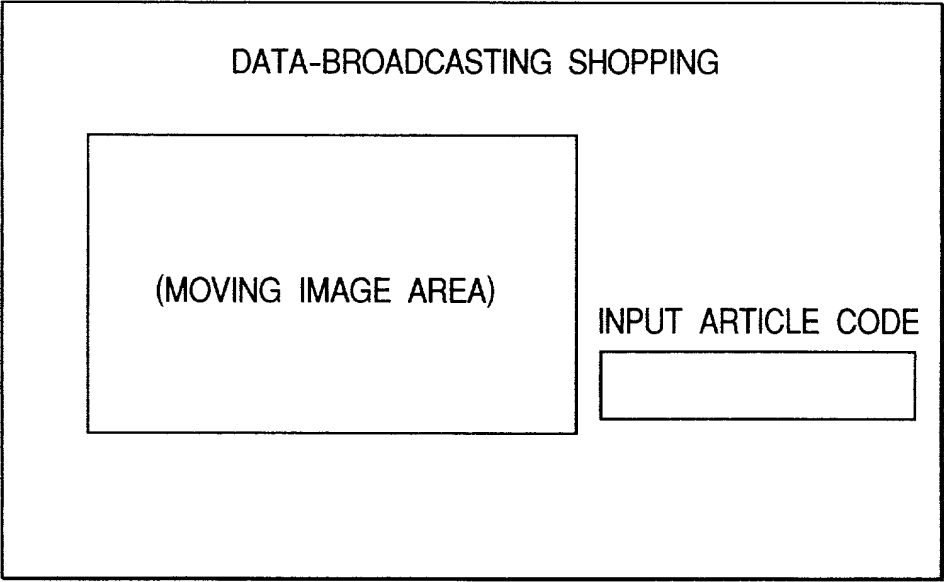


FIG. 17




```
<?xml version=1.0?>
<datanews>
  <title> DATA-BROADCASTING NEWS </title>
  <date>JUNE 1, 1999 </date>
  <logurl> http://www.xxx.co.jp/log </logurl>

  <news_item id="1" category="politics">
    <news_title> THE PRIME MINISTER VISITS THE U.S. </news_title>
    <news_img type="image/jpg"> 990601-1.jpg </news_img>
    <news_src> WORLD COOPERATION COMMUNICATION </news_src>
    <news_text>
      (26-TH) THE PRIME MINISTER LEFT FOR THE SECOND VISIT TO THE U.S. BY THIS VISIT TO THE U.S., IT IS XXXX
      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
    </news_text>
    <news_movie type="movie/mpeg" starttime="330", playtime="30"> news.mpg </news_movie>
  </news_item>

  <news_item id="2" category="economy" priority="highest">
    <news_title> G7 IS HELD. A SUBJECT FOR DISCUSSION IS A STRONG-YEN PROBLEM </news_title>
    <news_img type="image/jpg"> 990601-2.jpg </news_img>
    <news_src> KANNON NEWSPAPER </news_src>
    <news_text>
      (XXX OF ADVANCED SEVEN NATIONS XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
    </news_text>
    <news_movie type="movie/mpeg" starttime="820", playtime="30"> news.mpg </news_movie>
  </news_item>
  :
  :
  :
</datanews>
```

FIG. 19

```
<news_item id="3 category="sports" priority="middle">
<news_title> THE REPRESENTATIVE OF JAPAN FOR RUGBY GOT THE PARTICIPATION IN THE OLYMPIC GAMES </news_title>
<news_img type="image/jpg"> 990601-3.jpg </news_img>
<news_src> KANNON NEWSPAPER </news_src>
<news_text>
  (THE REPRESENTATIVE FOR RUGBY TEAM OF JAPAN IS XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  </news_text>
  <news_movie type="movie/mpeg" starttime="1124", playtime="30"> news.mpg </news_movie>
  </news_item>
  ⋮
  (THE MIDDLE IS OMITTED)
  <news_item id="100 category="geinou" priority="low">
  <news_title> TALENT MR. SHAKA KAN HAD A CAR ACCIDENT </news_title>
  <news_img type="image/jpg"> 990601-100.jpg </news_img>
  <news_src> KANNON NEWSPAPER </news_src>
  <news_text>
  (TALENT MR. SHAKA KAN IS XXXX DURING OPERATION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  XXXXXXXXXXXXXXXXXXXXXXXX
  <news_text>
  </news_text>
</datenews>
<advertisement>
  <adv_item id="1">
    <adv_img type="image/jpg"> 990601-ad1.jpg </adv_img>
    <adv_movie type="movie/mpeg" starttime="30", playtime="30"> adv.mpg </adv_movie>
    <adv_item>
      ⋮
      (THE MIDDLE IS OMITTED)
    </advertisement>
```

FIG. 20

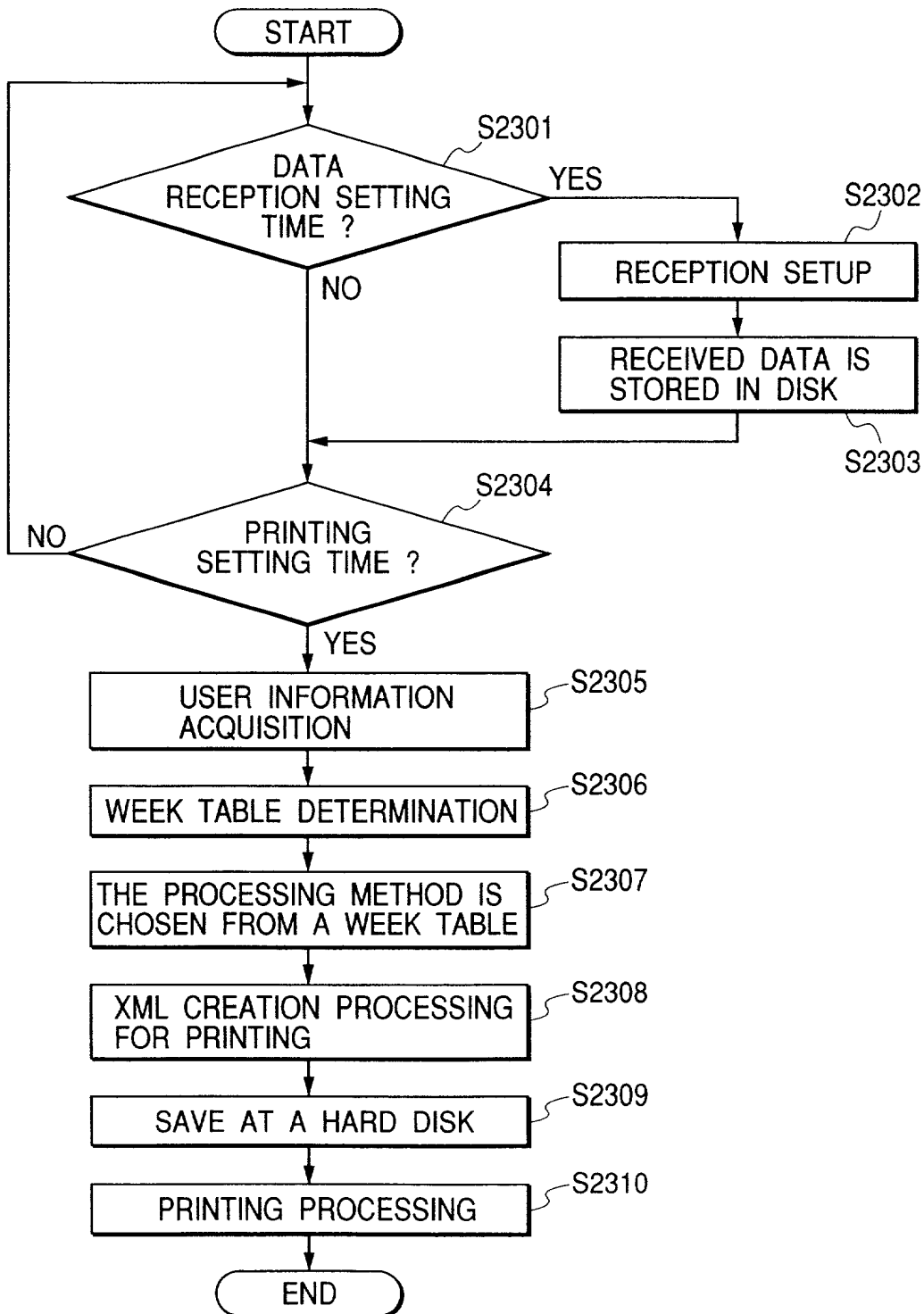
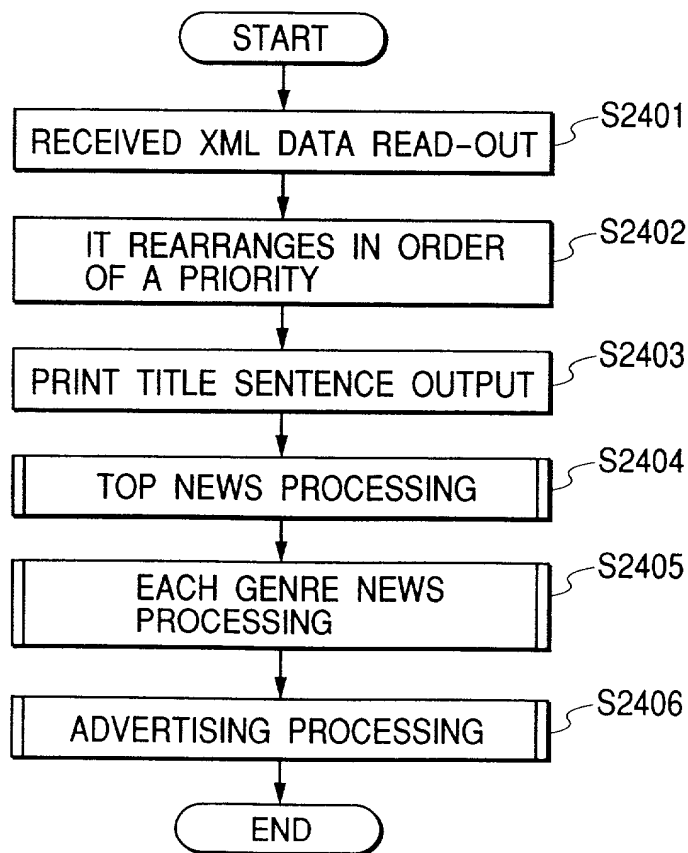


FIG. 21

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
USER 0	B	A	A	A	A	A	A
USER 1	B	A	A	A	A	A	A
USER 2	B	A	A	A	A	A	A
USER 3	B	A	A	A	A	A	A

FIG. 22

.....
B. If you'd add this if it ..
it's just that you have that

FIG. 23

```
<!DOCTYPE abc SYSTEM "http://www.xxx.co.jp/abc.dtd">
<head>
<title> Data HOUSOU news </title>

</head>
<body>
<div style="position:absolute; font-size=32; left:350; top:10, width:350; height:40">DATA-BROADCASTING NEWS </div>---①
<div style="position:absolute; font-size=32; left:350; top:40, width:350; height:40">MM DD-TH (MON) </div>---①
<div style="position:absolute; font-size=14; left:450; top:100, width:160; height:20">THE PRIME MINISTER VISITS THE U.S.</div>---②
<div style="position:absolute; left:350; top:100;">  </div>---②
<div style="position:absolute; font-size=10; left:450; top:125, width:160; height:60">(26-TH) THE PRIME MINISTER LEFT FOR THE SECOND
VISIT TO THE U.S. BY THIS VISIT TO THE U.S., IT IS XXXXXXXXXXXXXXXXXXXXXXXX </div>---②
<div style="position:absolute; font-size=10; left:625; top:100, width:75; height:20;color:red">CODE:000 (IMAGE) </div>---③
<div style="position:absolute; font-size=14; left:450; top:200, width:160; height:20">G7 IS HELD. A SUBJECT FOR DISCUSSION IS
A STRONG-YEN PROBLEM </div>
<div style="position:absolute; left:290; top:100;">  </div>
<div style="position:absolute; font-size=10; left:450; top:225, width:160; height:60;"> XXXX OF ADVANCED SEVEN NATIONS XXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX </div>
<div style="position:absolute; font-size=10; left:625; top:200, width:75; height:20;color:red"> CODE:001 (IMAGE)</div>

:
:
(THE MIDDLE IS OMITTED)

</body>
</html>
```

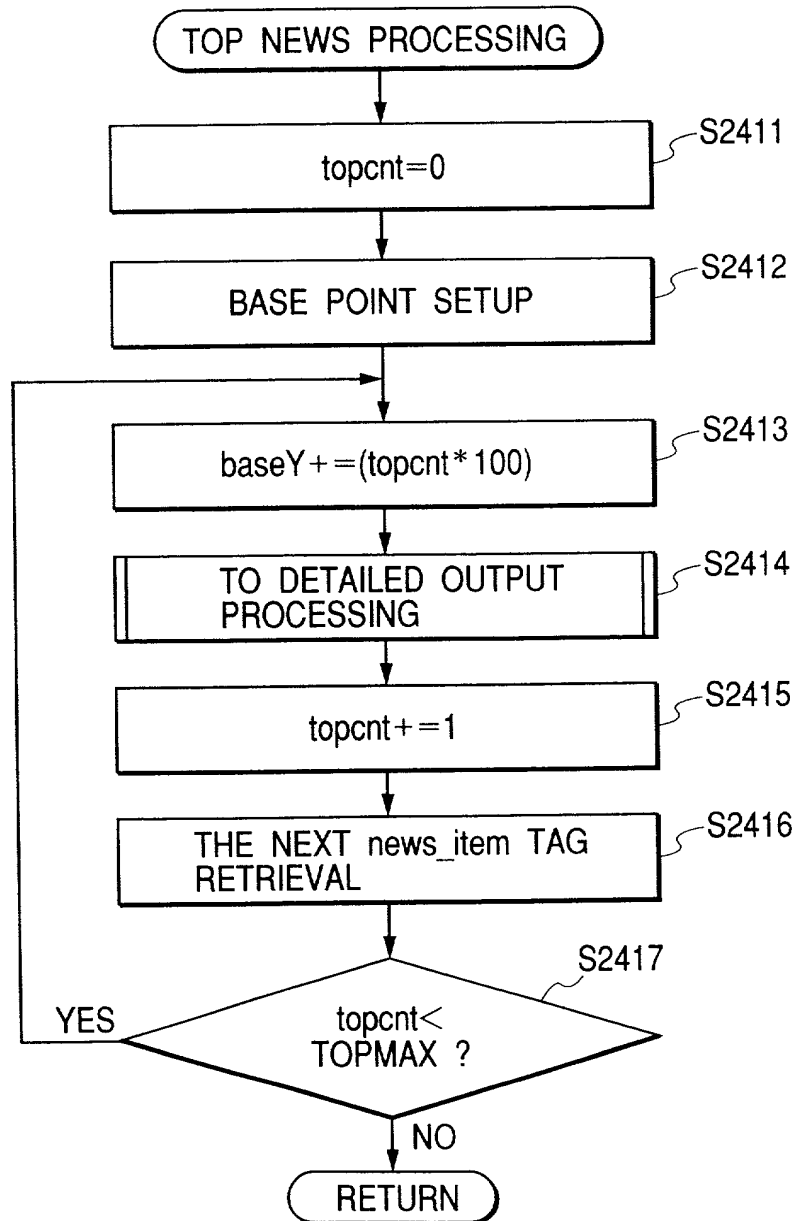
FIG. 24

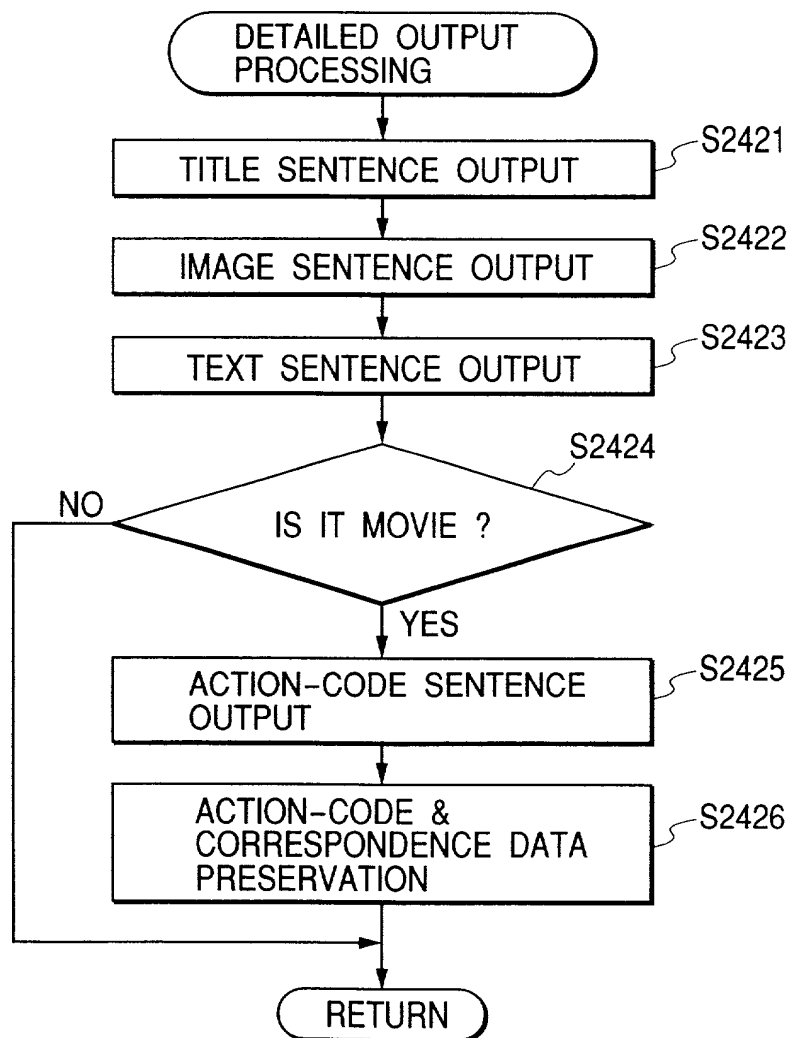
FIG. 25

FIG. 26

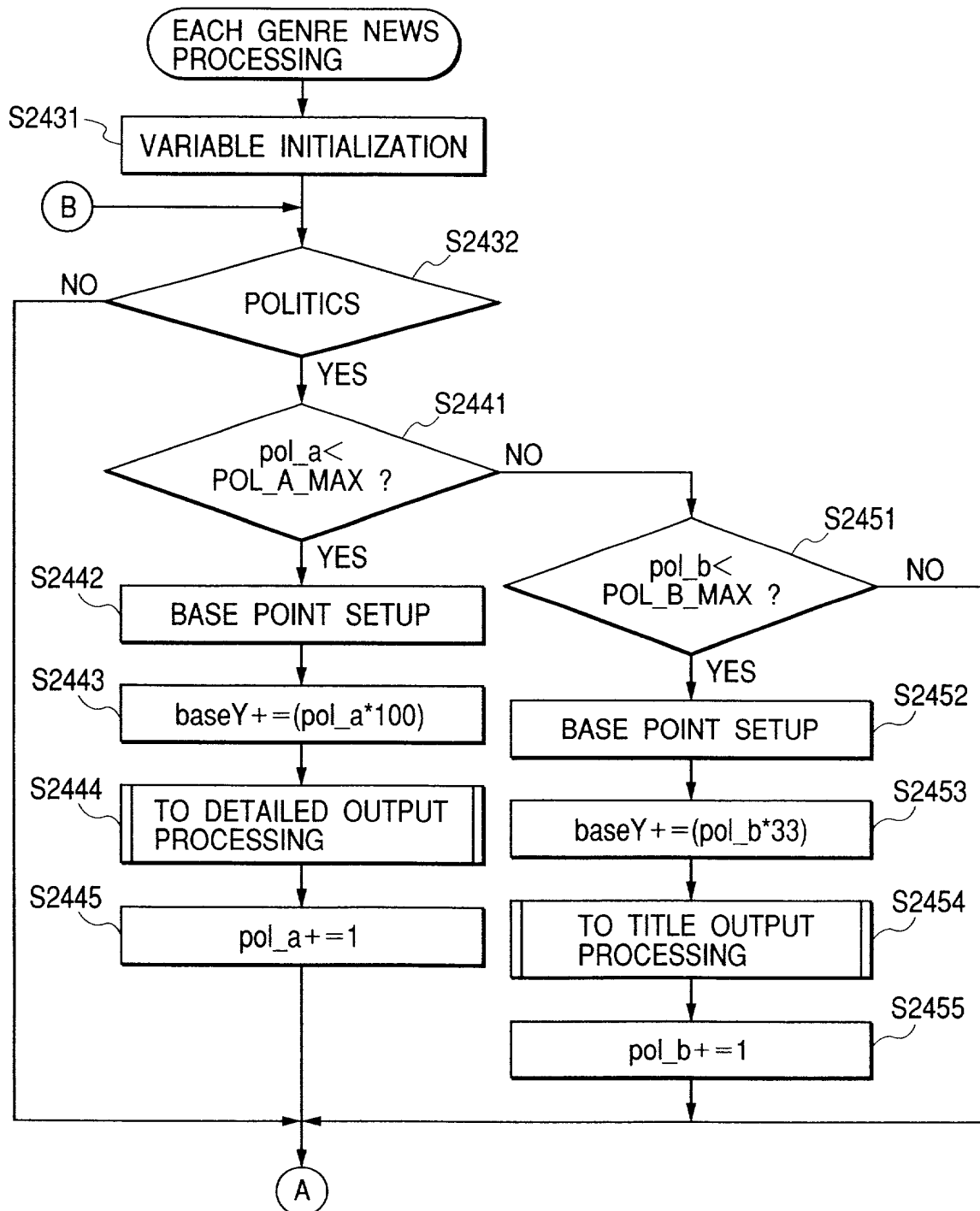


FIG. 27

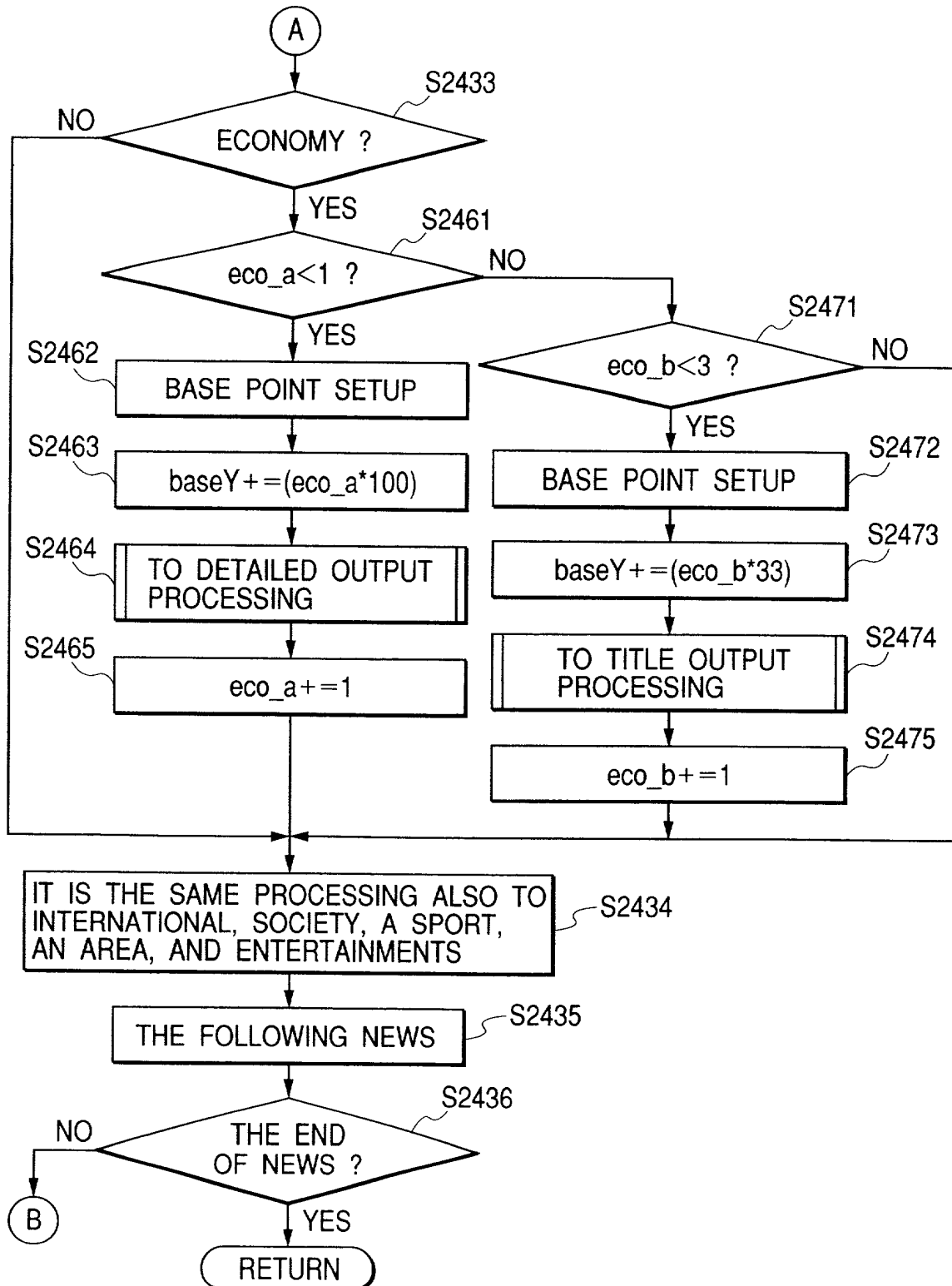


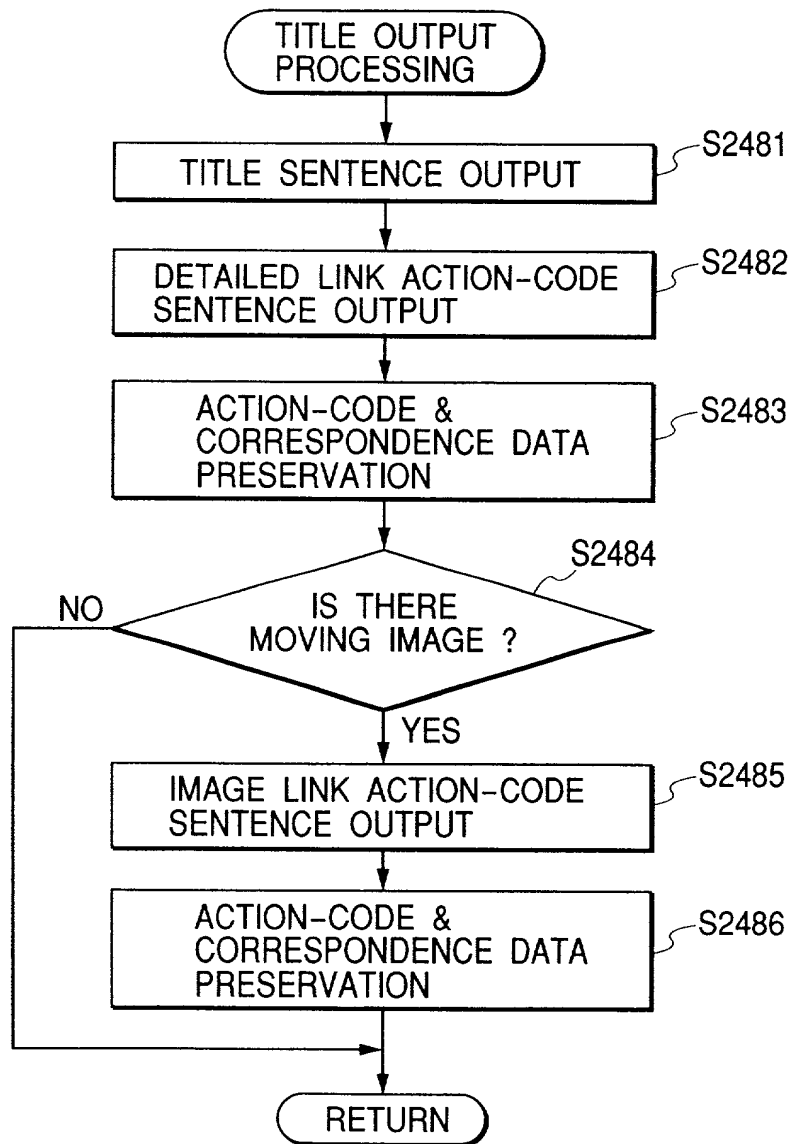
FIG. 28

FIG. 29

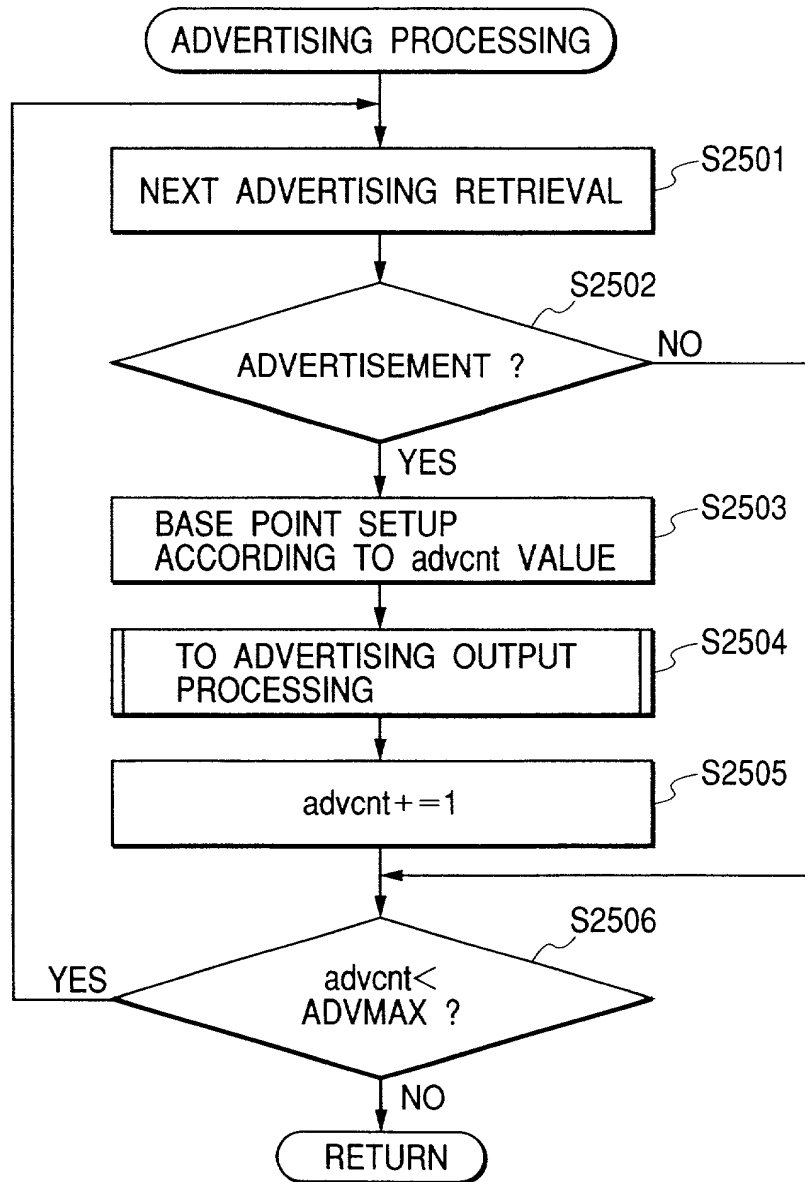


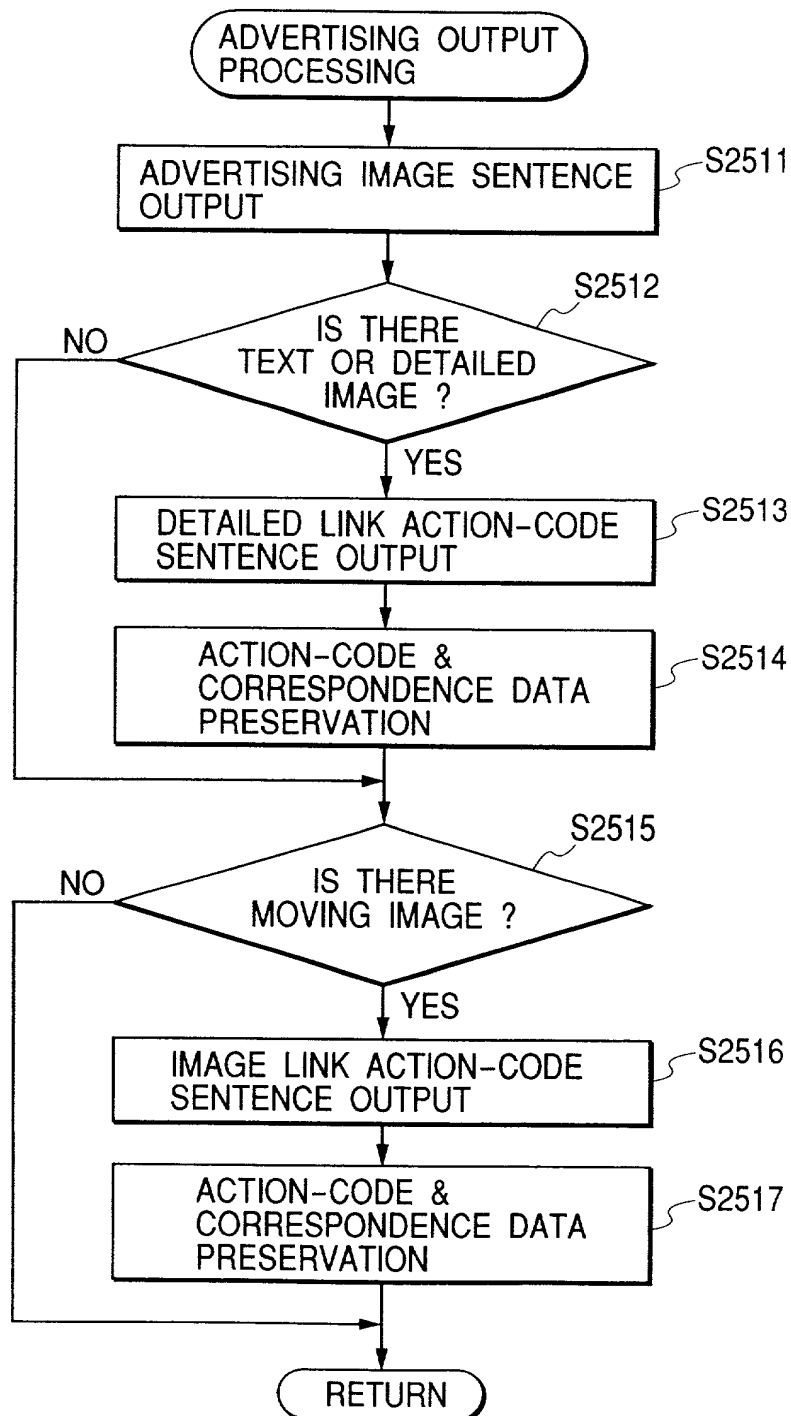
FIG. 30

FIG. 31

DATA-BROADCASTING NEWS MM DD-TH (MON)		ADVERTISING NEWS		
ADVERTISMENT 1 Code : 043 PHOTO 4 TITLE XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX (POLITICS) XXXXXXXXXXXXXXXXXXXX (DETAILS)005(IMAGE) Code : 006(DETAILS)008(IMAGE) Code : 009(DETAILS) TITLE TITLE TITLE	ADVERTISMENT 2 Code : 044 PHOTO 13 XXXXX Code : 026(IMAGE) XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXX PHOTO 14 XXX de : 027(IMAGE) XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXX TITLE Code : 028(DETAILS)029(IMAGE) TITLE Code : 030(DETAILS)031(IMAGE) TITLE Code : 032(DETAILS)	ADVERTISMENT 3 Code : 045 PHOTO 8 XXXXX INTER- NATIONAL XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX (DETAILS)016(IMAGE) Code : 017(DETAILS) XXXXX Code : 018(DETAILS)019(IMAGE)	ADVERTISMENT 4 Code : 046 PHOTO 10 XXXXX Code : 020(IMAGE) XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXX PHOTO 11 XXXXX Code : 021(IMAGE) XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXX SOCIETY TITLE Code : 022(DETAILS)023(IMAGE) TITLE Code : 024(DETAILS) TITLE Code : 025(DETAILS)	ADVERTISMENT 5 Code : 047 PHOTO 16 XXXXX Code : 004(IMAGE) XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXX AREA TITLE Code : 033(DETAILS)034(IMAGE) TITLE Code : 035(DETAILS)036(IMAGE) TITLE Code : 037(DETAILS) TITLE Code : 038(DETAILS)039(IMAGE) TITLE Code : 040(DETAILS)041(IMAGE) TITLE Code : 042(DETAILS)

FIG. 32

	PROCESS A DETAILS TITLE	PROCESS B DETAILS TITLE	PROCESS C DETAILS TITLE	PROCESS D DETAILS TITLE
TOP	3 0 (350,100)	3 0 (350,100)	3 0 (350,100)	3 0 (350,100)
POLITICS	1 3 (0,100) (0,200)	0 3 (0,100)	1 3 (0,100) (0,200)	0 3 (0,100)
ECONOMY	1 3 (0,300) (0,400)	0 0	1 3 (0,300) (0,400)	0 0
INTERNATIONAL	1 3 (0,500) (0,600)	1 3 (0,200) (0,300)	1 6 (0,500) (0,600)	1 3 (0,200) (0,300)
SOCIETY	2 3 (350,400) (350,600)	2 3 (0,400) (0,600)	2 6 (350,400) (350,600)	2 6 (0,400) (0,600)
SPORT	2 3 (700,100) (700,300)	3 3 (700,100) (700,400)	2 3 (700,100) (700,300)	3 3 (700,100) (700,400)
AREA	1 3 (700,400) (700,500)	1 3 (700,500) (700,600)	1 3 (700,400) (700,500)	1 6 (700,400) (700,600)
ENTERTAINMENTS	0 3 (700,600)	2 3 (350,400) (350,600)	0 6 (700,600)	2 6 (350,400) (350,600)
ADVERTISEMENT	5 (0,0), (700,0), (0,700), (350,700), (700,700)	5 (0,0), (700,0), (0,700), (350,700), (700,700)	2 (0,0), (700,0)	2 (0,0), (700,0)

FIG. 33

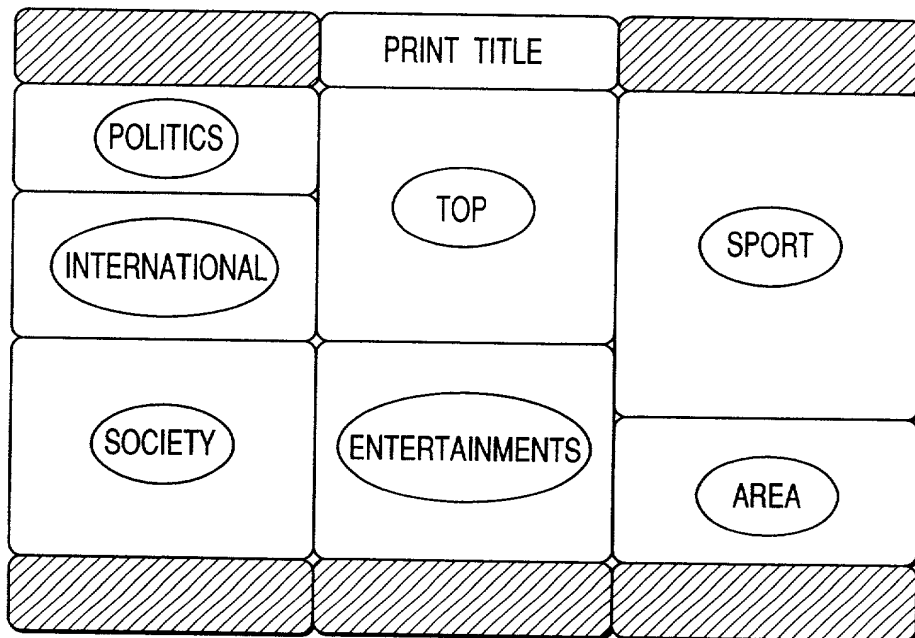


FIG. 34

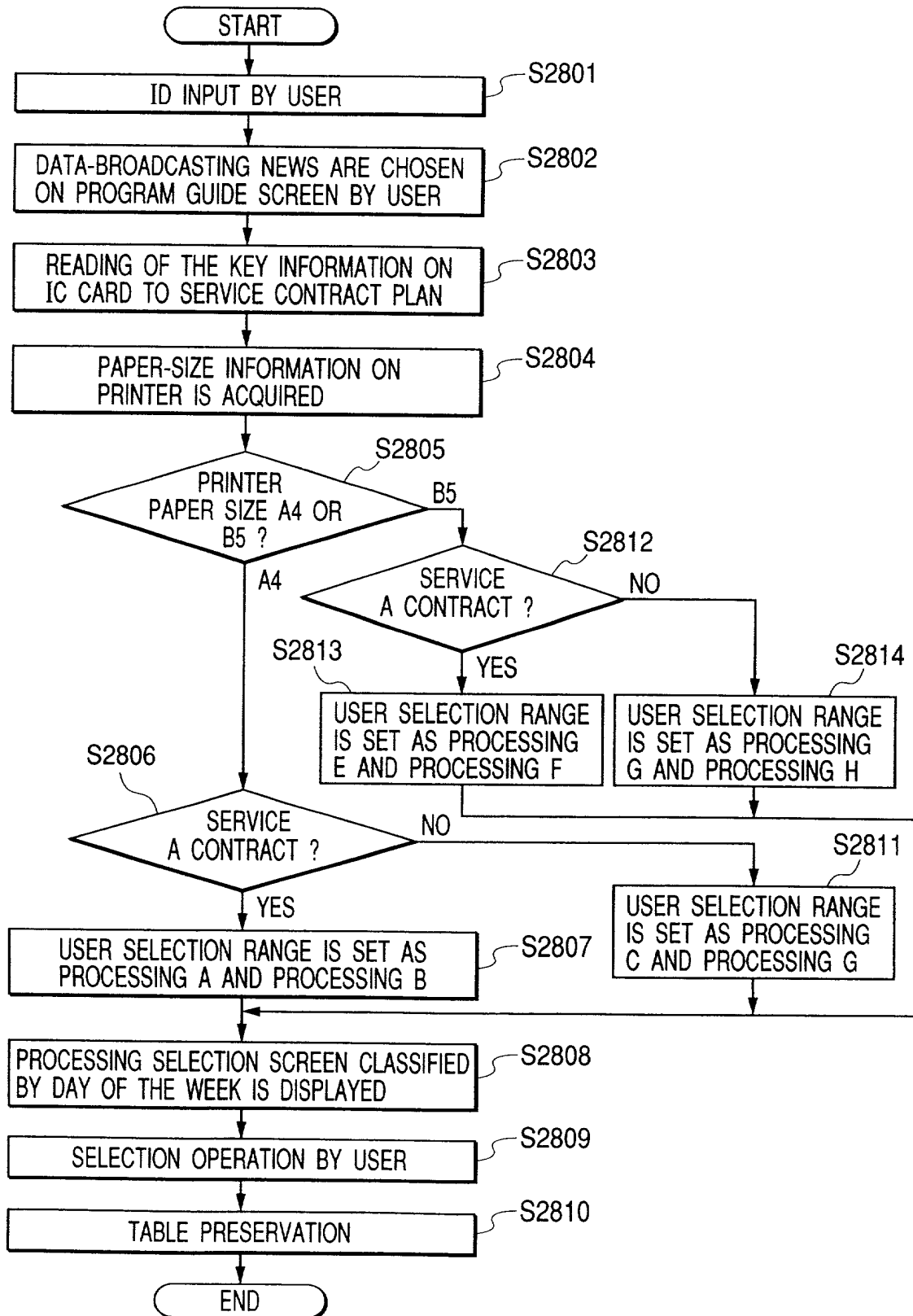


FIG. 35

	PROCESS E DETAILS TITLE	PROCESS F DETAILS TITLE	PROCESS G DETAILS TITLE	PROCESS H DETAILS TITLE
TOP	3 (330,100) 0	3 (330,100) 0	3 (330,100) 0	3 (330,100) 0
POLITICS	1 (0,100) 3 (0,200)	0 (0,100) 3 (0,100)	1 (0,100) 3 (0,200)	0 (0,100) 3 (0,100)
ECONOMY	1 (0,300) 3 (0,400)	0 (0,300) 0 (0,400)	1 (0,300) 3 (0,400)	0 (0,300) 0 (0,400)
INTERNATIONAL	0 (0,500) 3 (0,500)	1 (0,200) 3 (0,300)	1 (0,500) 3 (0,600)	1 (0,200) 3 (0,300)
SOCIETY	1 (330,400) 3 (330,500)	1 (0,400) 3 (0,500)	1 (330,400) 6 (350,500)	1 (0,400) 6 (0,500)
SPORT	1 (660,100) 3 (660,200)	2 (660,100) 3 (660,300)	1 (660,100) 3 (660,200)	2 (660,100) 3 (660,300)
AREA	1 (660,300) 3 (660,400)	1 (660,400) 3 (660,500)	1 (660,300) 3 (660,400)	1 (660,400) 6 (660,500)
ENTERTAINMENTS	0 (660,500) 3 (660,500)	1 (330,400) 3 (330,500)	1 (660,500) 3 (660,600)	1 (330,400) 6 (350,500)
ADVERTISEMENT	5 (0,0), (660,0), (0,600), (330,600), (660,600)	5 (0,0), (660,0), (0,600), (330,600), (660,600)	2 (0,0), (660,0)	2 (0,0), (660,0)

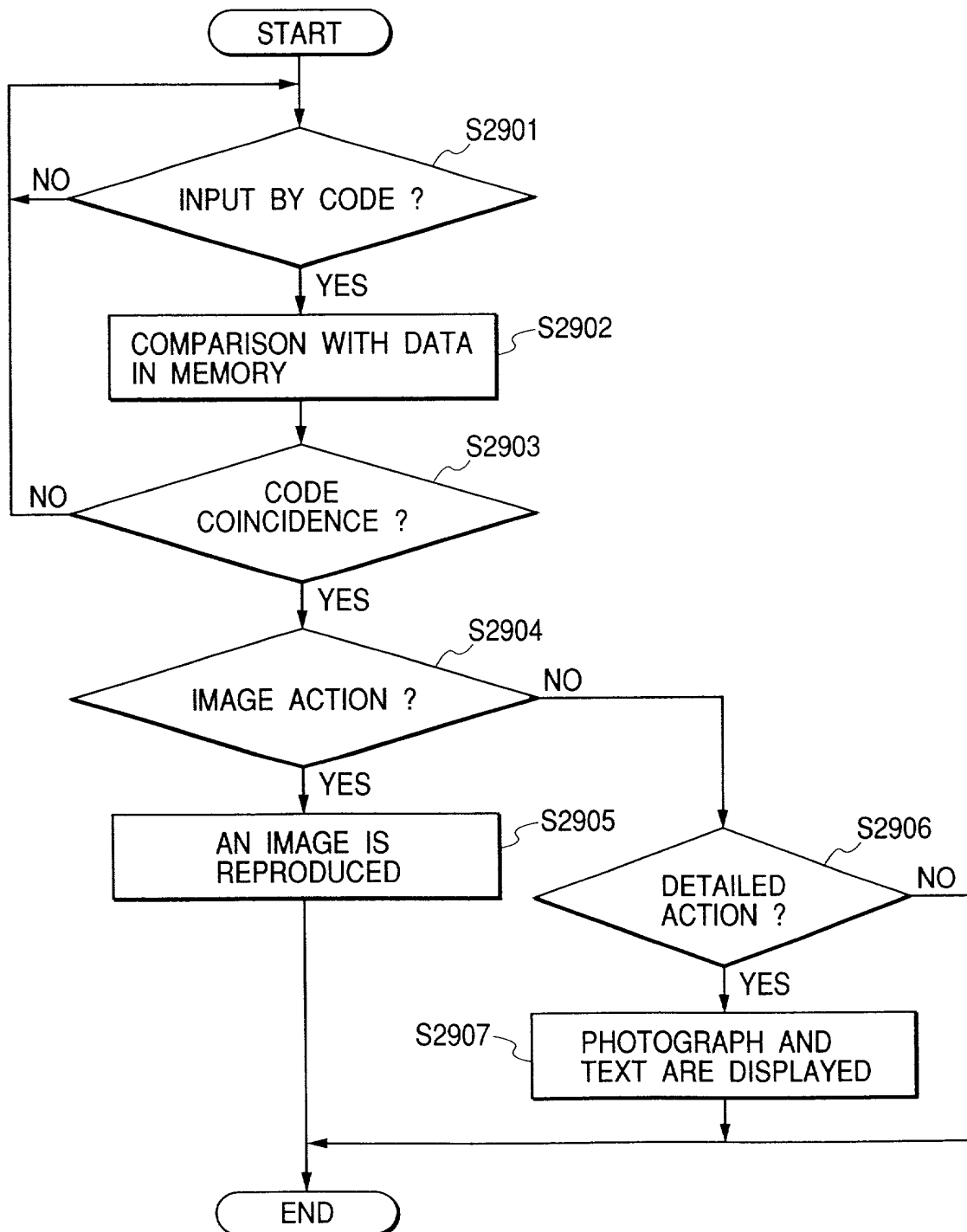
FIG. 36

FIG. 37

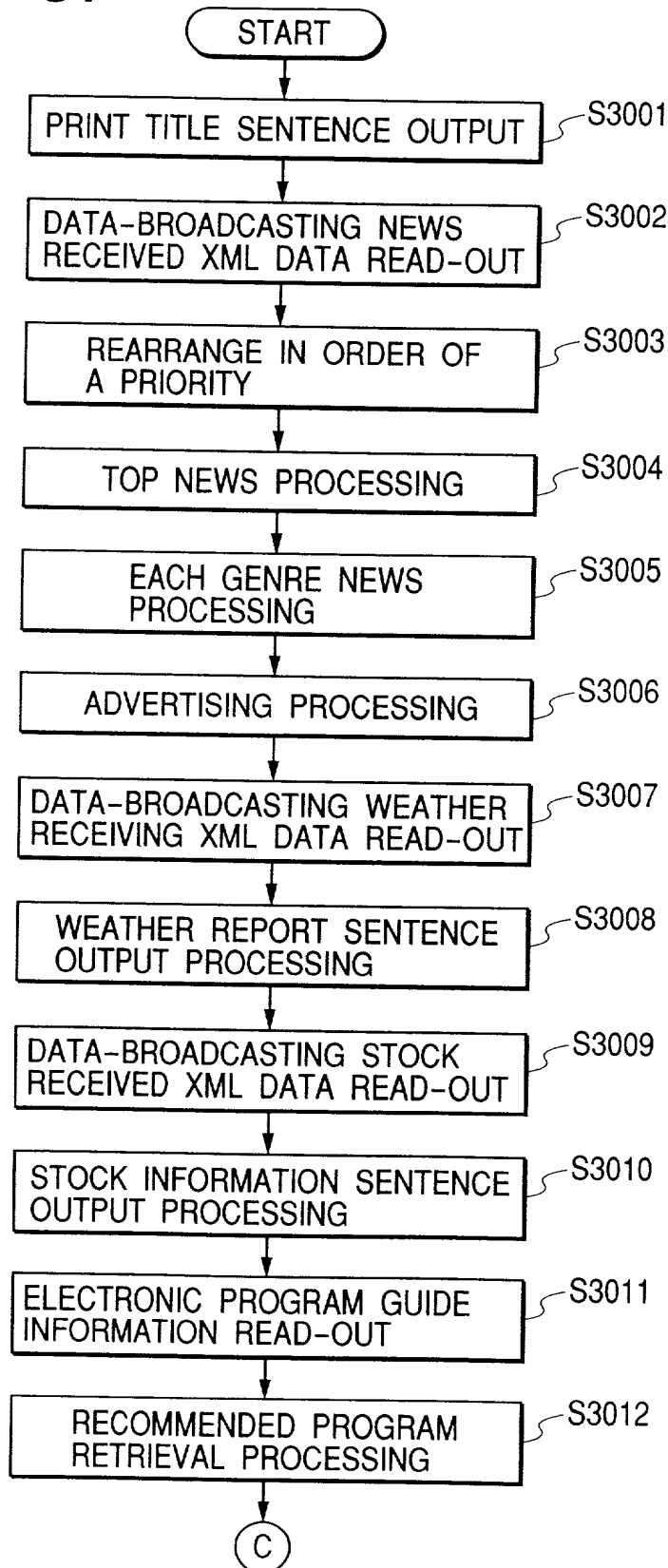


FIG. 38

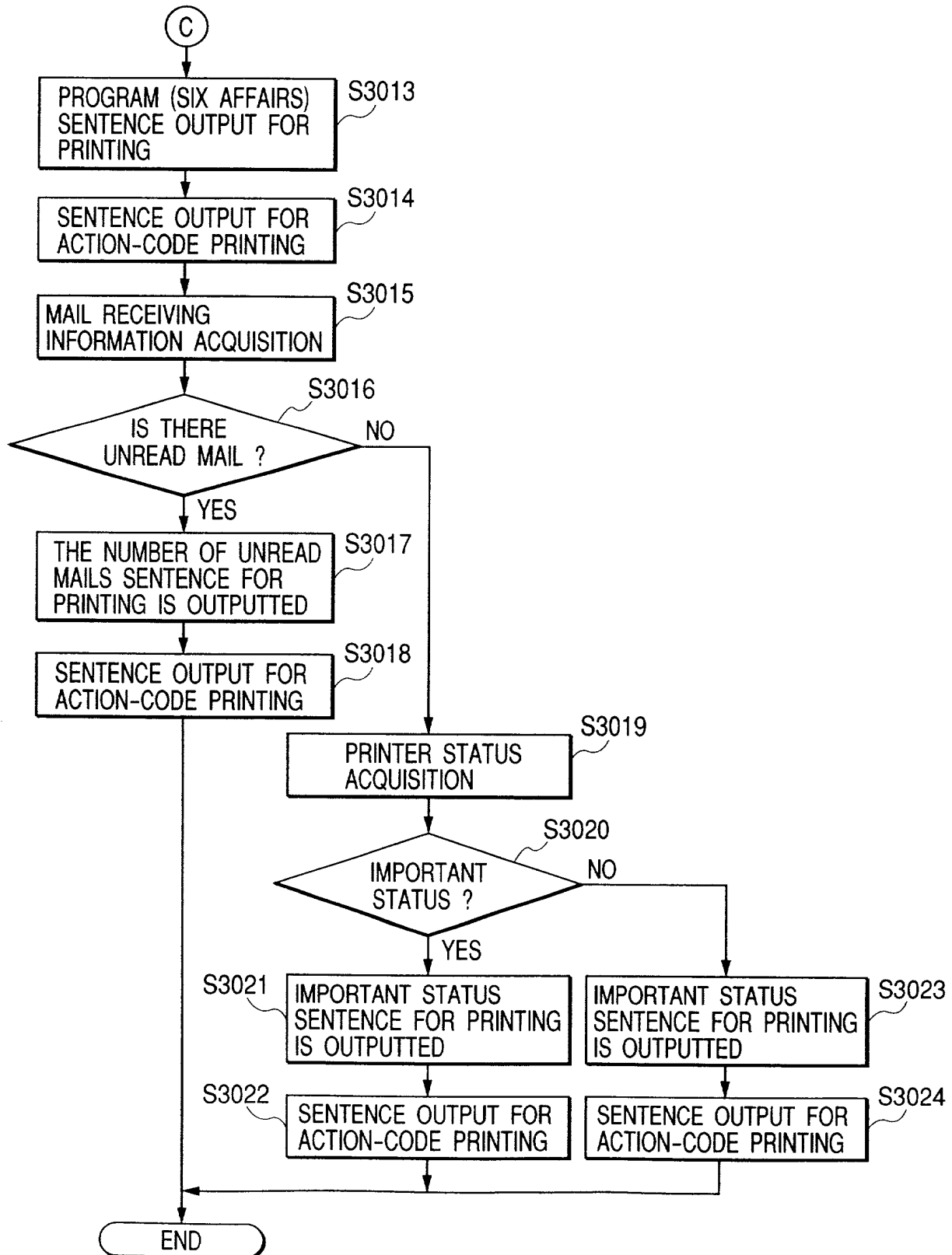


FIG. 39

	PROCESS X		PROCESS Y	
	DETAILS	TITLE	DETAILS	TITLE
TOP	3 (350,100)	0	3 (350,100)	0
POLITICS	1 (0,100)	3 (0,200)	1 (0,100)	3 (0,200)
ECONOMY	1 (0,300)	3 (0,400)	1 (0,300)	3 (0,400)
INTERNATIONAL	1 (0,500)	3 (0,600)	1 (0,500)	3 (0,600)
SOCIETY	2 (350,400)	3 (350,600)	2 (350,400)	3 (350,600)
SPORT	2 (700,100)	3 (700,300)	2 (700,100)	3 (700,300)
AREA	1 (700,400)	3 (700,500)	1 (700,400)	3 (700,500)
ENTERTAINMENTS	0	3 (700,600)	0	3 (700,600)
ADVERTISEMENT	2 (0,0), (700,0)		2 (0,0), (700,0)	
THE WEATHER	1 (1050,200)		1 (1050,200)	
STOCKS	1 (1050,500)		0	
LEISURE	0		1 (1050,500)	
PROGRAM	6 (0,700)		6 (0,700)	
MAIL	1 (1050,0)		1 (1050,0)	
PRINTER status	1 (1050,0)		1 (1050,0)	
ADVERTISEMENT	1 (1050,0)		1 (1050,0)	

FIG. 40A and FIG. 40B are schematic diagrams of a system for displaying a program of events. FIG. 40A is a schematic diagram of a system for displaying a program of events. FIG. 40B is a schematic diagram of a system for displaying a program of events.

FIG. 40A

ADVERTISEMENT	PRINT TITLE	ADVERTISEMENT	MAIL
POLITICS DETAILS 1 TITLE 3	TOP DETAILS 3	SPORT DETAILS 2 TITLE 3	THE WEATHER
ECONOMY DETAILS 1 TITLE 3	SOCIETY DETAILS 2 TITLE 3	AREA DETAILS 1 TITLE 3	STOCKS
INTERNATIONAL DETAILS 1 TITLE 3	ENTERTAINMENT TITLE 3	THE RECOMMENDED PROGRAM OF THIS EVENING 6	

FIG. 40B

ADVERTISEMENT	PRINT TITLE	ADVERTISEMENT	MAIL
POLITICS DETAILS 1 TITLE 3	TOP DETAILS 3	SPORT DETAILS 2 TITLE 3	THE WEATHER
ECONOMY DETAILS 1 TITLE 3	SOCIETY DETAILS 2 TITLE 3	AREA DETAILS 1 TITLE 3	FISHING
INTERNATIONAL DETAILS 1 TITLE 3	ENTERTAINMENT TITLE 3	THE RECOMMENDED PROGRAM OF THIS EVENING 6	